

very hard, immature.

The following were collected by Yue Jin, North Dakota State University, Department of Plant Pathology, SU Station, P.O. Box 5012, Fargo, North Dakota 58105-5012, United States; Peter Bristol, The Holden Arboretum, 9500 Sperry Road, Kirtland, Ohio 44060-5172, United States; Tieshan; P. Meyer; Kris Bachtell, Morton Arboretum, NACPEC, Route 53, Lisle, Illinois 60532, United States. Donated by Edward J. Garvey, USDA, ARS, National Germplasm Repository, U.S. National Arboretum, Washington, District of Columbia 20002, United States. Received 01/11/1994.

**PI 600483. *Malus baccata* (L.) Borkh.**

Wild. GMAL 3586. Collected 09/01/1993 in Heilongjiang, China. Elevation 370 m. Ping Shan, Heilongjiang Province. Disturbed woodland, old-field edge. Pedigree - Wild. Fruit red, glossy. Fruits eaten, high in vitamin C. Five herbarium specimens.

**PI 600484. *Malus baccata* (L.) Borkh.**

Wild. GMAL 3587. Collected 09/10/1993 in Heilongjiang, China. Latitude 43 deg. 51' N. Longitude 128 deg. 57' E. Elevation 558 m. Jian Shan Jiao, Heilongjiang Province. Disturbed woodland edge along stream with mandshurica Acer mono, Maackia amurensis, Quercus mongolica. Pedigree - Wild. Fruit red, shiny. Five herbarium specimens.

The following were collected by Philip L. Forsline, USDA, ARS, Cornell University, Plant Genetic Resources Unit, Geneva, New York 14456-0462, United States; James Luby, University of Minnesota, Department of Horticultural Science, 342 Alderman Hall, St. Paul, Minnesota 55108, United States; Elizabeth E. Dickson, The University of Calgary, Herbarium, Dept. of Biological Sciences, 2500 University Drive NW, Calgary, Alberta T2N 1N4, Canada. Donated by Philip L. Forsline, USDA, ARS, Cornell University, Plant Genetic Resources Unit, Geneva, New York 14456-0462, United States. Received 09/21/1995.

**PI 600485. *Malus sieversii* (Ledeb.) M. Roem.**

Wild. Kaz 95 01-02; GMAL 3596. Collected 08/26/1995 in Kazakhstan. Latitude 43 deg. 6' 58'' N. Longitude 76 deg. 47' 46'' E. Elevation 1400 m. Zielisky Alatau Province. Almaty village. 17 km South to Southwest of Almaty Center. Aksay river West side of Zielisky Apple Belt. Landform - valley near river. Gravely loam soil, some stoniness. Good drainage. Slope incline flat. Dominant tree sp: M. sieversii; Assoc.-Apricot, Crataegus. Dom. shrub sp: Berberis, Hippophae; Assoc.-Rubus, Rosa. Dominant herbaceous: Hops; Assoc.-Geranium, Fragaria. Sampled 150 fruits from 1 tree. Flesh flavor is aromatic. Bruises easily. Over color is 80% red, moderate scab. Low seed count (infertile).

**PI 600486. *Malus sieversii* (Ledeb.) M. Roem.**

Wild. Kaz 95 01-03; GMAL 3597. Collected 09/12/1995 in Kazakhstan. Latitude 43 deg. 21' 43'' N. Longitude 77 deg. 40' 28'' E. Elevation 1550 m. Zielisky Alatau Province. Almaty village. 30 km. East of Almaty in the Kuznetzov area. Landform: Slope. Slope incline: 15 degrees, East. Dominant tree sp: M. sieversii; Associated-Crataegus, Sorbus. Dominant shrub sp: Rosa; Assoc-Lonicera. Associated herbaceous: Fragaria,